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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/812,251	03/29/2004	Johnson Lin	041-92031	2742
38807	7590		EXAMINER	
WILLIAM A. FIETZ 1024 E. LARRABEE STREET APT F SANTA MARIA, CA 93455			TRAN, TRANG U	
			ART UNIT:	PAPER NUMBER
			2622	

DATE MAILED: 07/26/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/812,251

Applicant(s)

LIN ET AL.

Examiner

Trang U. Tran

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE \_\_\_\_\_ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Claim Objections*

1. The numbering of claims is not in accordance with 37 CFR 1.126 which requires the original numbering of the claims to be preserved throughout the prosecution. When claims are canceled, the remaining claims must not be renumbered. When new claims are presented, they must be numbered consecutively beginning with the number next following the highest numbered claims previously presented (whether entered or not).

Misnumbered claims 1-8 been renumbered 1-9.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claim 9 is rejected under 35 U.S.C. 102(b) as being anticipate by Dolgoff (US Patent No. 5,491,585).

In considering claim 9, Dolgoff discloses all the claimed subject matter, note 1) the claimed a method for transporting a rear projection television set (portable rear-screen television cabinet 1) comprising: removal of a detachable projector is met by the detachable projector 13 (Fig. 6, col. 2, lines 25-64), 2) the claimed removal of any other detachable components is met by the securing base panel 15 and rear panel 16 which can removed (Fig. 2, col. 2, lines 25-64), 3) the claimed folding a foldable frame or cabinet into a compact unit is met by the securing base panel 15 and rear panel 16 which can folded (Figs. 1 and 2, col. 2, line 25 to col. 3, line 55), and 4) the claimed

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latching the entire system together securely for transport is met by the recessed handle 39 or any other means which adapt to the cabinet to facilitate transportation (Figs. 1 and 2, col. 2, line 25 to col. 3, line 55).

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dolgoff (US Patent No. 5,491,585) in view of Liu et al. (US Patent No. 7,050,123 B2).

In considering claim 1, Dolgoff discloses all the claimed subject matter, note 1) the claimed a projection television system (portable rear-screen television cabinet 1) comprising: a foldable frame or cabinet is met by the securing base panel 15 and rear panel 16 which can folded (Figs. 1 and 2, col. 2, line 25 to col. 3, line 55), 2) the claimed a detachable projector is met by the detachable projector 13 (Fig. 6, col. 2, lines 25-64), 4) the claimed one or more projection mirrors is met by a mirror system 10-12 which comprises three front surface mirror (Fig. 8, col. 2, line 65 to col. 3, line 54), 5) the claimed a viewing screen the rear screen 5 (Figs. 7-8, col. 2, lines 24-64), and 6) the claimed a cavity behind said viewing screen is met by the cavity behind the rear screen 5 (Figs. 3-4, col. 2, lines 24-64). However, Dolgoff explicitly does not disclose the claimed one or more detachable plug-in speakers.

Liu et al teach that a speaker 602, an optical module 604, and a lamp module 606 can be assembled in a lower chamber 502b, and a screen 608 and a reflector 609 can be respectively assembled in the opening of the upper chamber 502a and at the mirror-framed board 216, besides, a control module 610 and a front cover 612 can be assembled in the opening of the lower chamber 502b by clasping, as shown in Fig. 6 (col. 4, lines 14-42).

Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention to incorporate the plug-in speaker as taught by Liu et al into Dolgoff's system to reduce the hardware space occupied by the housing and also reduce the cost in the transportation of the rear projection television (col. 1, lines 61-67 of Liu et al).

In considering claim 2, the claimed wherein said foldable frame comprises rigid sections that form into a cabinet when unfolded is met by the securing base panel 15 and rear panel 16 which can folded (Figs. 1 and 2, col. 2, line 25 to col. 3, line 55 of Dolgoff).

In considering claim 3, the claimed wherein said speakers and projector are electrically connected by means of slot connectors and electrical wiring carried in said foldable frame or cabinet is met by the partition 208, 205 and 207 (col. 4, lines 14-48 of Liu et al).

In considering claim 4, the combination of Dolgoff and Liu et al disclose all the limitations of the instant invention as discussed in claim 1 above, except for providing the claimed wherein said viewing screen is detachable. The capability of using said viewing screen is detachable is old and well known in the art. Therefore, the Official

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Notice is taken. It would have been obvious to one ordinary skill in the art at the time of the invention to incorporate the old and well known using of said viewing screen is detachable into the combination of Dolgoff and Liu et al's system in order to to reduce the hardware space occupied by the housing and also reduce the cost in the transportation of the rear projection television.

In considering claim 5, the claimed wherein said projection mirrors are detachable from the frame or cabinet is met by a mirror system 10-12 which comprises three front surface mirror (Fig. 8, col. 2, line 65 to col. 3, line 54 of Dolgoff).

In considering claim 6, the combination of Dolgoff and Liu et al disclose all the limitations of the instant invention as discussed in claim 1 above, except for providing the claimed wherein said viewing screen is foldable. The capability of using said viewing screen is foldable is old and well known in the art. Therefore, the Official Notice is taken. It would have been obvious to one ordinary skill in the art at the time of the invention to incorporate the old and well known using of said viewing screen is foldable into the combination of Dolgoff and Liu et al's system in order to reduce the hardware space occupied by the housing and also reduce the cost in the transportation of the rear projection television.

In considering claim 7, the combination of Dolgoff and Liu et al disclose all the limitations of the instant invention as discussed in claim 1 above, except for providing the claimed wherein said viewing screen is flexible and may be rolled up. The capability of using said viewing screen is flexible and may be rolled up is old and well known in the art. Therefore, the Official Notice is taken. It would have been obvious to one ordinary

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skill in the art at the time of the invention to incorporate the old and well known using of said viewing screen is flexible and may be rolled up into the combination of Dolgoff and Liu et al's system in order to to reduce the hardware space occupied by the housing and also reduce the cost in the transportation of the rear projection television.

In considering claim 8, the claimed wherein said projector is suitable for either front or rear projection television is met by portable rear-screen television cabinet 1 (Figs. 1 and 2, col. 2, line 25 to col. 3, line 55 of Dolgoff).

### ***Conclusion***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Liao (US Patent No. 7,072,002 B2) discloses rear-project video assembly with a foldable reflector.

Goldberg et al. (US Patent No. 5,741,057) disclose device for displaying a projected image.

Franken et al. (US Patent No. 4,647,166) disclose screen extension linkage for a video rear-screen projection apparatus.

Boldt et al. (US Patent No. 4,491,872) disclose ultra-compact projection television receiver.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trang U. Tran whose telephone number is (571) 272-7358. The examiner can normally be reached on 8:00 AM - 5:30 PM, Monday to Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Ometz can be reached on (571) 272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TT  
July 20, 2006



Trang U. Tran  
Examiner  
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